

## AWARD/ **MODIFICATION**

3a. ISSUED BY:

Office of Naval Research

875 N. Randolph Street Suite 1425

Arlington VA 22203-1995

1. INSTRUMENT TYPE: Grant Award

9. RECIPIENT PROPOSAL NO.:

3b. CFDA: 12.300

2 ALITHORITY

P00002

10 USC 2358 and 31 USC 6304, as amended 6. MODIFICATION TYPE:

3c. DUNS NUMBER: 052184116

5. MODIFICATION NO.:

7. PR NO.: 4720001295

N00014-16-1-2084 8. ACTIVITY/AGENCY PROPOSAL NO.:

GRANT11994657 13b, CAGE:

13c. EDI/EFT NUMBER:

10. PROPOSAL DATE: 9/11/2015

11. ACTIVITY TYPE: Research

12. PROGRAM TYPE: ONR

13. ISSUED TO 13a. ADDRESS:

4. AWARD NO.:

97668

N/A

14, REMITTANCE ADDRESS (IF DIFFERENT FROM BLOCK 13):

CARNEGIE MELLON UNIVERSITY 5000 FORBES AVE

PITTSBURGH PA 15213-3815 UNITED STATES OF AMERICA

Same as Block # 13

13d. BUSINESS OFFICE CONTACT:

JUDITH COYLE

13e. TELEPHONE NUMBER: 412-268-5571

13f. EMAIL ADDRESS:

JCOYLE@ANDREW.CMU.EDU

15. RESEARCH TITLE AND/OR DESCRIPTION OF PROJECT AND/OR PROPOSAL TITLE:

Enabling dexterous physics-based manipulation via a learning framework for shared autonomy

16. FUNDING	ACTIVITY/AGENCY SHARE	RECIPIENT SHARE	TOTAL	17. CURRENT	FUNDING PERIOD
PREVIOUSLY OBLIGATED:			\$199,650.00	N/A	THROUGH N/A
OBLIGATED BY THIS ACTION:			\$200,000.00		
TOTAL OBLIGATED ON AWARD:			\$399,650.00	18. PERIOD OF	PERFORMANCE
FUTURE FUNDING:			\$1,200,082.00	01/01/2016	THROUGH 12/31/2019
GRANT TOTAL:			\$1,599,732.00		

19. ACCOUNTING AND APPROPRIATION DATA:

See Attached Financial Accounting Data Sheet(s)

21. TECHNICAL REPRESENTATIVE 21b. CODE: 20a. PRINCIPAL INVESTIGATOR/RECIPIENT 21a. NAME: THOMAS MCKENNA 341 TECHNICAL REPRESENTATIVE: Siddhartha Srinivasa 21c. ADDRESS: ONR HUMAN & BIOENGINEERED SYSTEMS 875 N. Randolph Street Arlington VA 22203-1995 21d. TELEPHONE NUMBER: 21e. EMAIL ADDRESS: 20b. TELEPHONE NUMBER: 20c. EMAIL ADDRESS: 703-696-4503 412-268-5529 ss5@andrew.cmu.edu TOM.MCKENNA@NAVY.MIL 22. AWARDING OFFICE CONTACT 22a. NAME: ELIZABETH FORD 23a. ADMINISTRATIVE OFFICE: 23b. CODE: 22b, CODE: N62880 22c. ADDRESS: ONR REG Office Chicago Office of Naval Research Telephone: (312) 886-5423 875 N. Randolph Street Suite 1425 230 South Dearborn Arlington VA 22203-1995 CHICAGO IL 60604-1595 22d. TELEPHONE NUMBER: | 22e. EMAIL ADDRESS: 703-696-2576 ELIZABETH.FORD@NAVY.MIL

24. SUBMIT PAYMENT REQUEST TO: 25a. PAYING OFFICE:

26a. PATENT OFFICE:

26b. CODE: N00014

Same as block 23a

PO Box 182266

COLUMBUS OH 43128

HQ0337

DFAS-CO/NORTH ENTITLEMENT OPERATIONS

Office of Naval Research ATTN: ONR BDCC

One Liberty Center 875 North Randolph Street, Suite 1425

Arlington, VA 22203-1995

ONR AWARD FORM (10/99) - version 1.1

AWARD NO. 100014-16-1-2084	AWARD/MODIF	ICATION	P00002		
27.SPECIALINSTRUCTIONS: See Special Requirements on Page 5					
28. DELEGATIONS: The administration duties listed b will make their full text available. Please direct questio	ne to the contacts @:		lock 23a). Upon request the awarding o Contracts-Grants/Regional-Co	1	
Tull Delegation					
29. TERMS AND CONDITIONS: The following terms of Upon request the awarding office contact named in blo	and conditions are incorporated he	erein by reference with	the same force and effect as if they we	re given in full text.	
Opon (equest the awarding office contact framed in bit DOCUMENT	OCK 22 Will Haite then fair text dyter	URL			
The following documents may be founttp://www.onr.navy.mil/Contracts-DOD RESEARCH AND DEVELOPMENT GENER JAAC ACCEPTANCE C (NOV 2003) JAWA AWARD A (NOV 2003) STANDARD TERMS/CONDITIONS FOR RESE	Grants/submit-proposa AL TERMS AND CONDITION	ONS (OCT 2015)		ions.aspx	
30. OPTIONS OPTION NO.	AMOUNT		PERIOD		
(1) (2) (3) (4) 31. REPORTS: The following reports must be submitt the project. Final Technical Reports must have a SF2	ed to the indicated addressees. in	the indicated quantities	es, within 90 days following the expiration	on or termination of	
Block 12a of the SF298 as follows: "Approved for Pub	lic Release; distribution is Unlimite	ed".	THOSE ORIOTATION STATES AT THE ATTACASTOR		
ADDRESSEE	REPORT TYPE			COPIES	
See block #21	Final Technical R	=	Required ) with SF298	1	
See block #23a	Report of Inventi	ons and Subcontrac	cts - DD 882	1	
Bee Block #23a		eport transmittal		1	
	i i	unical Report ( As Lancial Status Repo	Required ) ort - SF425 - Including Line Item	1 1 1	
Defense Technical Information Cen 8725 John J Kingman Road Ste 0944 Fort Belvoir, VA 22060-6218	I		Required ) with SF298	1	
See block #26a	Report of Inventi	ons and Subcontrac	ts - DD 882	1	
Naval Research Laboratory	Final Technical R	deport		1	
ATTN: CODE 5596 4555 Overlook Avenue SW Washington, DC 20375-5320	Performance /Tech	Performance /Technical Report ( As Required ) with SF298			
32. FOR THE RECIPIENT		33. FOR THE UNITE	ED STATES OF AMERICA		
32a. SIGNATURE OF PERSON AUTHORIZED TO	SIGN	33a.SIGNATURE C Digitally sig	FAWARDING OFFICER gned by ELLEN SIMONOFF 12 03.25 10:29:50 EST	231665591	
32b: NAME AND TITLE OF SIGNER	32c, DATE SIGNED	33b. NAME AND TI	TLE OF AWARD OFFICER	33c. DATE SIGNED 03/25/2016	

## FINANCIAL ACCOUNTING DATA SHEET- NAVY

1 CONTRACT NUMBER (CRITCAL) 2 SPIN (CRITICAL) N00014-16-1-2084		-	3 MOD (CRITICAL)			4 PR NUMBER 4720001295									
6. LINE OF ACCOUNTING				100002			1720001233				7.				
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	ACRN (CRITICAL)	APPROPRIATION (CRITICAL)	SUBHEAD (CRITICAL)	OBJ CLA	PARM	RFM	SA	AAA (CRITICAL)	ΙT	PM	PROJ	ST CODE	PDLI	(CRITICAL)	REF DOC/ACRN
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GARIO TOTAL I								\$200,000.00							
PREPARED/AUTORIZED BY				COMPTROLLER APPROVAL FOR FISCAL DATA AND SIGNATURE BY for COMPTROLLER, ONR CONTRACT REVIEWED											
DATE					BY										

## FINANCIAL ACCOUNTING DATA SHEET-NON-NAVY DoD ACTIVITIES

1 CONTR N00014-1	ACT NUMBER (6 16-1-2084	CRITICAL)	2 SPIIN (CRITICAL)	3 MOD (CRITICAL) P00002	4 PR NUMBER 4720001295		
5. CLIN/SLIN	6 ACRN (CRITICAL)	7.		ACCOUNTING CITATION		8 AMOUNT (CRITICAL)	NAVY INTERNAL LISE ONLY REF DOCIACRN
	J				PAGE TOTAL GRAND TOTAL	1	4
PREPARED#	AUTHORIZED BY	,			COMPTROLLER APPROVAL FOR FISCAL DATA AND SIGNATURE BY_ DATE		CONTRACT REVIEWED

AWARD NO. N00014-16-1-2084	SPECIAL REQUIREMENTS	P00002	
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